From qrp-l@lehigh.edu Fri Jun 2 14:07:59 1995
Message-Id: <Pine.3.89.9506021025.A543301846-0100000@utkvx.utk.edu>
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: A battery question from an AC user
Date: Fri, 2 Jun 1995 10:07:59 EDT

THis is very basic, but a little help will put me on the right track.

I am thinking of using a Panasonic LCR12V1.3P lead-acid sealed battery (1.3 Ah, 12 volt) to power an SWL-30 (low receive current, about 300-350 mA key down current). What can I expect for operating lifetime between charges? 3-4 hours? More? Less?

Is there any special precaution to take about charging these batteries?

Told you the questions were basic (novice). But once I can get oriented, I should be able to carry on.

If you think there are other AC users needing such a primer, respond to net; if I am virtually alone, respond direct. And thanks in advance.

-73-
LB, W4RNL

From qrp-l@lehigh.edu Fri Jun 2 15:00:11 1995
Message-Id: <2A9BFA91ACD@daphne.rrze.uni-erlangen.de>
From: "Richard Hieber" <SZ0026@daphne.rrze.uni-erlangen.de>
Subject: Re: A battery question from an AC user
Date: Fri, 2 Jun 1995 11:00:11 EDT

LB, fellow QRP friends,

> I am thinking of using a Panasonic LCR12V1.3P lead-acid sealed battery
> (1.3 Ah, 12 volt) to power an SWL-30 (low receive current, about 300-350
> mA key down current). What can I expect for operating lifetime between
> charges? 3-4 hours? More? Less?

I am not very experienced with this, but I'll give my two cents anyway. LB, you forgot to give the current drain in receive. For this example I assume RX current is 100mA, TX current is 300mA, and you are a good operator who is listening a lot, so you are listening nine tenth of your time.

Average current drain then is one tenth of TX current plus nine tenth of

RX current, that is 0.1 * 300mA + 0.9 * 100mA = 30mA + 90mA = 120mA = 0.12A.

Your battery theoretically can entertain this current for { 1.3 divided through 0.12 } hours: that is a wee bit more than ten hours. I guess my assumption of 100mA RX current was ridiculously high - so your operating time might be even longer.

You see, the math is easy. In reality your average operating time between charges will be less because the battery can't be drained to the last electron. Here experience comes into play that I don't have enough of ;-)

72 de Richard, DL8MFQ/AA8CP

--
Richard Hieber, DL8MFQ/AA8CP
sz0026@daphne.rrze.uni-erlangen.de

From qrp-l@lehigh.edu Fri Jun 2 16:43:32 1995
Message-Id: <950602124216.202c11c4@carib.vf.mmc.com>
From: JEVERHART@cayman.vf.mmc.com
Subject: RE: A battery question from an AC user
Date: Fri, 2 Jun 1995 12:43:32 EDT

LB, you wrote, in part:

> I am thinking of using a Panasonic LCR12V1.3P lead-acid sealed battery
> (1.3 Ah, 12 volt) to power an SWL-30 (low receive current, about 300-350
> mA key down current). What can I expect for operating lifetime between
> charges? 3-4 hours? More? Less?
>
> Is there any special precaution to take about charging these batteries?

I use a somewhat similar setup very successfully.

I have a YUASA (you bet YUASA!) with at 1.9 AH rating that I have used with a variety of QRP rigs. With an SWL-30 or NC-40 or other rig of that ilk, I can usually get 8-10 hours of hard usage (contesting like Field Day). I know that the battery is getting low, because the sidetone gets "mushy."

Calculating the usable time per charge is not strictly a mathematical operation. What counts for "end of charge" is when the battery voltage dips below a usable level. A-H capacity is rated to some final voltage which is necessarily less than the fully charged voltage. For the NC-40 receiver, this

is no big deal, but the transmitter power will drop (power is roughly proportional to V^2) and if the voltage gets too low, voltage regulation suffers so you get "chirp" in the vfo.

As for charging, for the fastest best charge, use a smart charger like the ones Jade and Tejas sell or those that have been written up in the ARRL Handbook and here on qrp-l. I'm not in a real hurry to recharge mmy battery so I usually treat it like a Ni-Cd and charge it at C/10 (for a 1.9 A-H battery this is 190 mA) for 12 to 16 hours. For Field Day the last few years I have used a 100 mA soalr panel to charge the battery up ahead of time for "Natural Power" points. I give it at least 40 hours of reasonalbe sunlight to make up for clouds, no realignment of the solar panel, etc. This certainly ain't an optimum charging strategy, but it works for me!

Good luck and 72/73,

Joe E. N2CX

From qrp-l@lehigh.edu Fri Jun 2 22:50:11 1995
Message-Id: <9505028021.AA802130054@mailrouter.alascom.com>
From: "Jim Larsen" <jlarsen@alascom.com>
Subject: Antenna Help request from AL7FS
Date: Fri, 2 Jun 1995 18:50:11 EDT

Greetings from Alaska.

It is finally summer here and I want to try a few wire antennas in my small yard.   However, my reference books have gone into hiding. Can't find them.

Here's what I have in mind.

1st, the setting:

Small lot with 50-55 (maybe one 60) foot trees in the back. They blow around alot. Some are birch, and some are sitka spruce.

1. I wondered if a vertical made of big wire would work. 3-4 radials (8 feet up off ground). One antenna for 40 mtr and one for 30 mtr.
Shoot a fish line up over each tree, pull each vertical up. Feed with twin lead (I have know idea how to do that yet or what antenna tuner to use--Hey I've only been a ham 30 years, there is still time.   :-)   )

2. Try for a one or two element delta loop (Lord knows how I would get the

wires through the branches and the leaves.) I suspect the trees may not be high enough for a delta loop on forty meters. But they might be ok on thirty meters.

Anyway, I need to try to do better than my G5RV.

Any help with dimensions, lessons learned, general advice, hints and kinks, watch out fors and such would be appreciated.

Thank you and

73,

Jim Larsen
AL7FS
Anchorage, Alaska
jlarsen@alascom.com

From qrp-l@lehigh.edu Sat Jun 3 00:46:28 1995
Message-Id: <950602204509_84870127@aol.com>
From: JCoote@aol.com
Subject: Re: Antenna Help request from AL7FS
Date: Fri, 2 Jun 1995 20:46:28 EDT

A few antenna ideas for you...

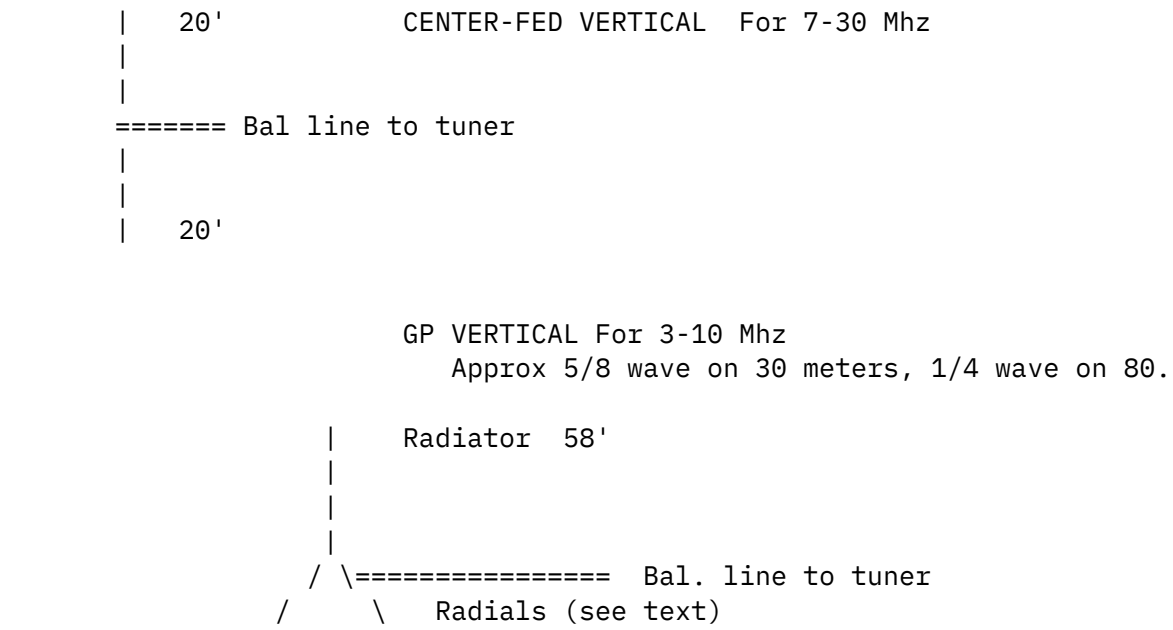
One idea might be to use a center-fed vertical.... just one antenna. Feed it at the center with ladder or heavy-duty TV line and a tuner with a balun.

If each leg were 20' you might get some gain and low-angle properties on the higher bands 15, 12, 10 meters. 20' is about 5/8 wave on 29 Mhz.   The antenna would work as well as a resonant (coax feed) dipole down to about 7 or 10 Mhz. Below that, the antenna is short and would be an s-unit or so down from a full-size vertical on 4 Mhz. Of course you need a 50' or taller tree to support a CF vertical dipole.

If you wanted better results on 80-40-30, then you might consider a vertical wire which is no longer than 5/8 wave at the highest frequency (30 meters in your case?). Got 60 feet? I think the formula is 585/F for 5/8 wave.

You could put the tuner at the feedpoint of the antenna or else use balanced line to get from a tuner to the GP antenna. Don't feed with coax! Balanced line and tuners have been used to feed multiband GPs or verticals (Article by W4VON in an old ARRL antenna book). For radials, I would use four radials the same length as the radiator if they will be above ground. If the radials

will be on the ground, then it's better to use a dozen or more shorter radials than the "traditional" lossy two or four 1/4 wave radials. Monstrous groundrods or burying the radials will not help much on HF.
Yes, there will be some imbalance on the feedline but no big deal. A current balun may work better for you.



72, Jay

From qrp-l@lehigh.edu Sat Jun 3 02:26:06 1995
Message-Id: <199506030225.VAA25869@chuck.dallas.sgi.com>
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: ARCI Archives
Date: Fri, 2 Jun 1995 22:26:06 EDT

During Dayton, I requested that Myron accumulate every issue of the Quarterly. At Silver Spring meeting with the group, the same topic was brought up Tuesday night.

In order to conserve bandwidth, everyone do the following:

1. look in your library and send ME email on what back issues you have before 1985. Thanks to Doug Hendricks, from 1985 to date has been done.

I'll see who has the best collection or if no one individual has them all, then maybe we can find two or more that will make up a complete set. I'll foot the bill to get one collection together. Then we'll work on the logistics to get the "Internet Librarian" at least one copy. There is a possibility that no one individual has all issues from #1 collected, but time will tell.

Thanks for your support.

dit dit
--
Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-l@lehigh.edu Fri Jun 2 17:46:45 1995
Message-Id: <9506021745.AA04811@rgfn.epcc.Edu>
From: af852@rgfn.epcc.Edu (William R Colbert)
Subject: arrival
Date: Fri, 2 Jun 1995 13:46:45 EDT

Just received a call from home - UPS delivered a box marked from INDEX LABS. Assume it is the QRP+ on order since February. Now to take a couple of hours off and get it checked out. Hope the wait was worth it. Just in time for the 30 mtr propagation test.
Ray, W5XE, El Paso, TX af852@rgfn.epcc.Edu

From qrp-l@lehigh.edu Fri Jun 2 18:01:43 1995
Message-Id: <9506021800.AA14780@immigrant.Eng.Sun.COM>
From: Roger.Pease@eng.sun.com (Roger Pease)
Subject: Re: arrival
Date: Fri, 2 Jun 1995 14:01:43 EDT

>Just received a call from home - UPS delivered a box marked from
>INDEX LABS. Assume it is the QRP+ on order since February. Now
>to take a couple of hours off and get it checked out. Hope the wait
>was worth it. Just in time for the 30 mtr propagation test.
>Ray, W5XE, El Paso, TX af852@rgfn.epcc.Edu

Sounds suspicious. Better call the bomb squad and have it x-ray'ed
first! :^)

     _Roger

Roger M. "QR" Pease - KE6PPI - pease@Sun.COM

From qrp-l@lehigh.edu Fri Jun 2 20:06:16 1995
Message-Id: <heH8+Q6qnjD@PAMDT.ANG.AF.MIL>
From: <CBAILEY@PAMDT.ANG.AF.MIL> (MSgt Cameron C.R. Bailey)
Subject: RE: Confessions of a Hardware....
Date: Fri, 2 Jun 1995 16:06:16 EDT

On Thu, 01 Jun 95 10:04:00 PDT,
Spence S Wilhelm <Spence_S_Wilhelm@ccm.ch.intel.com>
wrote to the QRP-L list;

>All right people, anyone else willing to confess? How many of
>you would rather take a schematic diagram or the ARRL handbook to
>the bathroom instead of the newspaper or a novel?
     ^^^^^^^^ ^^^^^^   ^^^^^^^^^
Actually, I prefer to use the soft white paper stored on a roll,
which is dispensed from a wall mounted device. P-). The handbook
is much too good to use for that!!

Joking aside, it's true most of the people here spend more time
on the list than on the air. I'm guilty too. We did have a guy drop
from our QRP club because he was NOT a builder. We need good
operators too.

Time is limited for people today. I like to pack my soldering station,
tools, etc when I go on government business and have to stay in the
hotel. There I have quiet evenings and no other committments.
I was frustrated trying to operate from hotels so now I build when
I stay in one!!!

I have been learning to head copy CW so I can operate during my
hour commute. May I suggest operating during contests. It is the
ultimate test of that new circuit, rig, antenna, etc. Spence, thanks
for your honesty. Now we need a support group :-).

72,

Cam, KT3A (KT3A@aol.com)

Cam Bailey
SOGNET LAN Administrator (Banyan)
211 Engineering Installation Squadron
Fort Indiantown Gap (Annville) PA
DSN: 491-8737   Comm: 717-861-8737 FAX: 8268

From qrp-l@lehigh.edu Fri Jun 2 18:45:40 1995
Message-Id: <9506021900.AA06195@dtcs70.dtc.kodak.com>
From: mitchell@dtcs70.dtc.kodak.com (Brad Mitchel)
Subject: Friday QRP Thought
Date: Fri, 2 Jun 1995 14:45:40 EDT

If we could build a 1kw transciever for the same $, time investment, the same
size etc. as a 1w qrp transceiver, would we?
Have a nice weekend. Brad WB8YGG

From qrp-l@lehigh.edu Fri Jun 2 19:01:12 1995
Message-Id: <9505028021.AA802130568@CCMAIL.AEROSYS.LORAL.COM>
From: "Bob White" <Bob_White@CCMAIL.AEROSYS.LORAL.COM>
Subject: Re: Friday QRP Thought
Date: Fri, 2 Jun 1995 15:01:12 EDT

     Sure, as long as it draws less then 2 amps at 12 volts DC!
     Bob WO3B

_____ Reply Separator _____
Subject: Friday QRP Thought
Author: mitchell@dtcs70.dtc.Kodak.COM at INTERNET
Date: 6/2/95 2:50 PM

If we could build a 1kw transciever for the same $, time investment, the same
size etc. as a 1w qrp transceiver, would we?
Have a nice weekend. Brad WB8YGG

From qrp-l@lehigh.edu Fri Jun 2 19:07:40 1995
Message-Id: <26245.802119223@safety.ics.uci.edu>
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: Friday QRP thought
Date: Fri, 2 Jun 1995 15:07:40 EDT

Brad writes:

>If we could build a 1kw transciever for the same $, time investment, the same
>size etc. as a 1w qrp transceiver, would we?
>Have a nice weekend. Brad WB8YGG

Yikes! If that was true, we would figure out a way to build a 1 watt qrp
transceiver 1/1000 the size and cost of a 1kw one!!!

Clark
WA3JPG

From qrp-l@lehigh.edu Fri Jun 2 19:24:01 1995
Message-Id: <199506021922.MAA18305@mailhost.primenet.com>
From: aa7qy@primenet.com (Roger Hightower)
Subject: Re: Friday QRP Thought
Date: Fri, 2 Jun 1995 15:24:01 EDT

>If we could build a 1kw transciever for the same $, time investment, the same
>size etc. as a 1w qrp transceiver, would we?
>Have a nice weekend. Brad WB8YGG
>
>
Only if it would help me get the one zone I need for WAZ....already have
DXCC (2 modes), WAS, WAC, etc on low pwr/qrp....who needs killerwatts?

72/73, de Roger AA7QY
aa7qy@primenet.com   rhigh@aztec.asu.edu   Ham Radio: AA7QY@KC7Y.AZ.USA.NA

From qrp-l@lehigh.edu Fri Jun 2 19:26:20 1995
Message-Id: <9505028021.AA802131333@smtpgwy.windata.com>
From: Harry_Chase@smtpgwy.windata.com (Harry Chase)
Subject: Friday QRP Thought

Date: Fri, 2 Jun 1995 15:26:20 EDT

..And if we can get it to put out the 1KW on 10 GHz, I will really
be drooling...

Harry
WA1VVH

From qrp-l@lehigh.edu Fri Jun 2 21:11:06 1995
Message-Id: <9506022103.AA09153@puma.scintl.com>
From: Mike White <mpw@scintl.com>
Subject: Re: Friday QRP thought
Date: Fri, 2 Jun 1995 17:11:06 EDT

At 03:07 PM 6/2/95 EDT, you wrote:
>Brad writes:
>
>>If we could build a 1kw transciever for the same $, time investment, the same
>>size etc. as a 1w qrp transceiver, would we?
>>Have a nice weekend. Brad WB8YGG
>
>Yikes! If that was true, we would figure out a way to build a 1 watt qrp
>transceiver 1/1000 the size and cost of a 1kw one!!!

All while slamming a Dew.
--
Mike White   Chen Systems Corporation
Amateur   voice:715/833-7860
 Radio   fax :715/833-7096
 N9UXC

From qrp-l@lehigh.edu Fri Jun 2 21:16:14 1995
Message-Id: <01HR8J46N7N4HTRWYV@ADMIN.Rose-Hulman.EDU>
From: David Moody <MOODY@admin.rose-hulman.edu>
Subject: Re: Friday QRP thought
Date: Fri, 2 Jun 1995 17:16:14 EDT

>Yikes! If that was true, we would figure out a way to build a 1 watt qrp
>transceiver 1/1000 the size and cost of a 1kw one!!!

Since I like working with small stuff, it is obvious that we can extend
this one ad nauseum.

72, David Moody, KD8NY, Killer Dogs 8 New York, C'mon Field Day

---
David A. Moody | E-mail: David.Moody@Rose-Hulman.edu
Admin. Programmer/Analyst | Finger: mgrdam@crux.Rose-Hulman.edu
Rose-Hulman Inst. of Tech. | Amateur Call: KD8NY (CW QRP) ex-WB9MMD
Terre Haute, IN USA 47803 | (VMS Rules!!! (but RSTS was fun.))
Wk Ph: 812.877.8183 |

Any facts expressed within belong to everybody.
Any opinions expressed within are my own and are not
necessarily the same as my employer, family, friends, etc.
It is up to you to know the difference.

From qrp-l@lehigh.edu Fri Jun 2 21:22:57 1995
Message-Id: <9506022121.AA16872@philadelphia.libertynet.org>
From: adam@philadelphia.libertynet.org (Adam O'Donnell)
Subject: Re: Friday QRP Thought
Date: Fri, 2 Jun 1995 17:22:57 EDT

I would go for a 1kw rig with a RF output control. I think I could
resist the temptation.

:-)

73

--
Adam O'Donnell, N3RCS/AG
Internet: adam@libertynet.org

My parents tell me that I just take up time and space. It's true -
I'm into relativity theory.

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.2

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=JOfv
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From qrp-l@lehigh.edu Fri Jun 2 11:52:31 1995
Message-Id: <Pine.SUN.3.91.950602044308.19919B-100000@crl7.crl.com>
From: Steven Wilson <randyw@crl.com>
Subject: Re: from one closet to another
Date: Fri, 2 Jun 1995 07:52:31 EDT

Dirk it seems that there are many of us. I have been able to improve the situation a little by setting a goal.   I normally have 4 or 5 something in progress.   I mean 85 to 99 percent finished. I set a goal this year to do one project a month.   So far this year I have completed two antenna tuners, two superhet receivers, and three transmitters.   I still seem to have five on the bench in progress. But I found that I keep trying to meet my record of the previous month and finish something. hi It is fun to build; always nice to see the lights and bells going off, then off to a new project. But the goal has been the key for me.   Before that I did well to complete two projects a year.   It has been fun to see which of the many half finished project wins the race every month to be the one that is completed. hi A WWVB freq std receiver almost made it this month but got beat out by a SPC transmatch antenna tuner. hi However it is in the lead for June being about 98%.   :-)

73 de ak0b stan

From qrp-l@lehigh.edu Fri Jun 2 13:30:36 1995
Message-Id: <9505028021.AA802109975@smtpgwy.windata.com>
From: Harry_Chase@smtpgwy.windata.com (Harry Chase)
Subject: Re: from one closet to another
Date: Fri, 2 Jun 1995 09:30:36 EDT

There's plenty of fun in "all the chatting" -- especially when its about all the *ham radio projects* you are working on!
     I, too, have a big problem with 4 out of 5 projects begun and never finished... But at least I have an accumulated parts bin so big now that I seldom have to go out and buy a lot of new ones any more

when starting another project...

Harry
WA1VVH

From qrp-l@lehigh.edu Fri Jun 2 11:25:25 1995
Message-Id: <199506021124.GAA24696@chuck.dallas.sgi.com>
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: Geo Address
Date: Fri, 2 Jun 1995 07:25:25 EDT

address is GEO@T5L.ADP.WISC.EDU in caps.

Hope we didn't get caught with the 1 vs l (that's
a 1 followed by a lower case L. Some have sent me
email noting they couldn't get the server. Hope
this clears it up.

I try to be careful, and try to think of these
things ahead of time, but alas.......

dit dit k5fo/3 on way back to dallas
--
Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-l@lehigh.edu Sat Jun 3 00:09:23 1995
Message-Id: <2fcfa5f0.IBBS1@ibbs1.com>
From: "CLAY WYNN" <ID0077@ibbs1.com>
Subject: RE: GEOGRAPHICAL DATA
Date: Fri, 2 Jun 1995 20:09:23 EDT

Chuck,
    I tried the telnet route (martini.eecs.umich.edu 3000 and it
works great. I tickled the database with two very small communities
in my c and the database nailed them both.

On the same subject, June 95 Monitoring Times page 108 has an article
by bill.cheek@731.n202.z1.fidonet.org for a great circle distance
calculator in a spreadsheet version. It takes pos. A, pos. B,
in hrs, min, sec and gives azimuth and distance between A and B. It
includes Clarke Spheroid Corrections for ellipicity in NA and

agrees with USGS data. The excel spreadsheet file can be
downloaded from a BBS at 619-578-9247 if you can't find the magazine.

72/73 es gd lk in the 30m prop study
C. C. (Clay) Wynn N4AOX
--
+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+
+ From IBBS#1 Metro Chicago   +
+ ADDRESS REPLIES TO ID0077@IBBS1.COM (CLAY WYNN)   +
+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+

From qrp-l@lehigh.edu Fri Jun 2 14:47:31 1995
Message-Id: <199506021419.IAA08574@zia.aoc.nrao.edu>
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: Re: I got it!!!
Date: Fri, 2 Jun 1995 10:47:31 EDT

CONGRATULATIONS ON YOUR UPGRADE TO GENERAL. You remind us all of
the excitement we had when our tickets first arrived or when we
upgraded. Its a good feeling and you have all the right to be
proud of yourself. Congratulations OM - you did it!

72, Paul NA5N

----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----
| VLA - Very Large Array Observatory - Worlds largest radio telescope |
|VLBA - Very Long Baseline Array   - even larger |
--------(pharden@zia.aoc.nrao.edu) --- (73 de NA5N) --------------------

From qrp-l@lehigh.edu Sat Jun 3 01:14:18 1995
Message-Id: <Pine.3.89.9506021826.A6778-0100000@netcom11>
From: patrick cook <kb0oxd@netcom.com>
Subject: Newt Gingrich's Internet address
Date: Fri, 2 Jun 1995 21:14:18 EDT

Hi Gang:

Does anybody have the Internet address for Newt Gingrich??? I'd like to
send him a piece of my mind regarding his latest proposal. I'd send this

to ARRL, but they won't be back till Monday, and I'd really like to get
the ball rolling on this ASAP!

I know the suffix would be @white.house.gov or something to that effect,
but I'm not quite sure.

Many thanks in advance, and 73's for now, my friends!

DE KB0OXD

From qrp-l@lehigh.edu Sat Jun 3 03:55:52 1995
Message-Id: <9506030353.AA23390@dora.auc.trw.com>
From: bhickey@auc.trw.com (Bill Hickey)
Subject: Re: Newt Gingrich's Internet address
Date: Fri, 2 Jun 1995 23:55:52 EDT

Newt Gingrich's email address is: georgia6@hr.house.gov

For the rest of the list: you can get a list of all the representatives
currently available via email by sending a "help" request to:
congress@hr.house.gov

FYI, not all the representatives are available via email, and none of the
senate currently have email addresses that are being made public. The
list changes frequently as new members are added, so the only way to know
if YOUR representative is available is to send for the information package.

73,
Bill Hickey
wa5fxe
bhickey@dora.auc.trw.com

From qrp-l@lehigh.edu Fri Jun 2 19:04:25 1995
Message-Id: <n1410020676.48224@msmailgw1.arlut.utexas.edu>
From: "rohre" <rohre@arlut.utexas.edu>
Subject: Panasonic 12 Volt rechargeable
Date: Fri, 2 Jun 1995 15:04:25 EDT

LB Cebik posed a question on a battery that by model no. sounds like a VCR

battery, or at least a close relative.

These of course, as he said, are sealed lead acid, rather than other rechargeable technologies. As in any lead acid battery, the charging process needs to be current limited to protect the plates from inrush current at discharge state, and the temperature of the battery during charging should be monitored to avoid overheating and outgassing, which might break a seal. Gel Cells often are stated to be best charge at R over 10 rate, where R is the Amp Hour rating. This would be a starting point when the information for this specific battery is not known.

If this model is the same as used in older portable VHS VCR's I would suggest trying to find a portable VCR power supply, charging setup, (which probable will have the VCR attached,) but which can be had for low cost at pawn shops, since the cam corder is the popular form today for video afoot.

My experiences with several of the Panasonic VHS batteries has been that at the current draw LB cited, 3 or 4 hours would be reasonable, as it is about half of the portable VCR drain, which if memory serves correctly was 9 watts. That in fact is probably conservative, and the transmit duty cycle will be the big effect upon the charge duration.

Unfortunately for this type of battery, there does not seem to be a clear cut lifetime that you can expect in the recorder service. Eventually, they reach a point that although they appear to charge, they will have very short liftetime in service. At this point, unlike nicads, there does not seem to be a recovery technique that can be used to recover capacity of charge. I have unsucessfully tried repeated charge discharge cycles, trying to force a recovery. If anyone can offer one, I had several of these sitting around to be either converted to AC power supplies, or other technology, since the case shape is unique to certain brands of VCR. Also, I have not had the courage to open one up, knowing it must be done with rubber gloves, and with utmost care to not spill any corrosive materials. A face shield and lab rubber apron probably would be the minimum safety aids to any salvage effort. Acid eats skin and clothes, and is not pleasant stuff, even in semi-solid form.

As a footnote, a local distributor, Altex Electronics, has some new surplus gel cel golf cart batteries, 12 Volts at 24 ampere hours for $19.95. These are about the height of a small car battery, but half or less as long, with lugs tapped for bolts. The case is plastic. This seems like a good price, compared to gel cells in Mouser of similar size.

From qrp-l@lehigh.edu Sat Jun 3 04:54:06 1995
Message-Id: <802130427.AA02148@hamlink.mn.org>
From: CLATON.CADMUS@hamlink.mn.org (CLATON CADMUS)

Subject: PANEL LETTERING
Date: Sat, 3 Jun 1995 00:54:06 EDT

Hello All,

I know we talked about this a couple of months ago, but I came up with a new idea. (If it's not original let me know). I got this idea looking at a roll of white plastic carpet tape (sticky 2 sides). I wrote before about printing front panels from your computer on pressure sensitive paper and sticking them on complete. Then covering them with clear shelf plastic. Well this is on the same theme.

Most paint and CAD program will allow you to "mirror" the image. You print your front panel out in reverse on a sheet of overhead film. This can be purchased for laser, ink jet, and plotter printers. Stick a layer of carpet tape on the front panel and then the printed film printed side down. Presto, very durable plastic covered front panel with captured printing!

Just think what you can do with a color ink jet printer. Now I need to find a source of the tape wider then 2" for the big boxes.

73 de Claton Cadmus, KA0GKC


```
   ____________________________________________________________
  |     FIDOnet= Claton Cadmus 1:282./100                      |
  |    INTERnet= Claton.Cadmus@hamlink.mn.org                  |
  |   PACKETnet= KA0GKC@WB0GDB.#STP.MN.USA.NA                  |
   ------------------------------------------------------------
```


 * SLMR 2.1a * If messy shacks were worth money, I'd be a millionaire!

---NoSnail v1.17
****
HAM>link< RBBS - Serving the Amateur Radio Community Since 1983

- 612/HAM-0000 v.34   Ham Radio Spoken Here!!
- 612/HAM-1010 v.32b   Reply to sender @ hamlink.mn.org
****

From qrp-l@lehigh.edu Fri Jun 2 21:17:26 1995
Message-Id: <MAILQUEUE-101.950602171225.480@rcadmin.nov.add.bnl.gov>
From: "Nick Franco - KF2PH" <NICKF@rcadmin.nov.add.bnl.gov>
Subject: PIXIE 2 Finished
Date: Fri, 2 Jun 1995 17:17:26 EDT

Hi all,

With all the talk about the pixie 2 and the Dayton contest, I was very disappointed not to be able to attend, so.....

I downloaded Chuck's .ps file of the schematic (Great job Chuck). I started scavaging up parts the other day. I began stuffing (not much to stuff but...) and scavaged up the last few parts. Yesterday I went at it with the iron.. The only thing I had to look up was the LM386 to see that pin 5 is the output (just not familiar with the part). Finally, about 11:45 pm or 12:00 midnight I plugged the battery in and placed the earplug into my ear ... and ... I heard that beautiful hissss of a live receiver. Unfortunately, I didn't hear and CW coming over the air. Next step ... I tuned my Icom on and tuned to 3579 + and there it was the oscillator was whistling up a storm on my receiver. Now the big test ... hook up a straight key and sniff for smoke. No smoke! wow - this is a first! I must have really paid attention to Chuck's schematic (great job Chuck!! Did I say that already?). As I keyed the Pixie I tuned my Icom to get a good side tone note and started calling CQ. NOBODY! I mean NOBODY! I called for about half an hour and nothing, but at least I know it works.

Today I decided to take a Personal Computer backplane blank and cut it to fit my little enclosure (2 1/2" x 3 1/2" x 3/4"). I tied the KEY leads to a small bolt and nut in the cover and bolted the metal piece onto the other side of the cover and attached the other KEY lead to that bolt. With a small piece of insulated wire slipped under the metal tab, I can adjust the height off the bolt that the metal tab hovers. There a permanently mounted straight key on the cover of the enclosure (looks like a pocket clip or something).

I also decided to install a switch to go between the 3.579 and a 3.686 crystal. Multi freq. pocket TCVR (cool). However, while install the switch I broke the lead off the 3.579 crystal (the only one I had). So... I'll be trying again tonight to make my first contact with the little guy - but on 3.686 or thereabouts. It was a great little project and I had fun building it. Now for my first contact and I'll be fulfilled (untill my SWL-30 get here, anyway).

Thanks for the bandwidth. I'll see you all on 30 before the summer is over (hi hi). Best 72/73

Nick

Nick Franco - RHIC Computer/Network Support
Building 1005 2nd Floor Rm. 201
UPTON, N.Y. 11973-5000 U.S.A.

tel:(516)282-5467 fax:(516)282-3674

Ham Call: KF2PH   QRP-NE # 349

From qrp-l@lehigh.edu Fri Jun 2 23:47:37 1995
Message-Id: <Pine.3.89.9506021900.A543573052-0100000@utkvx.utk.edu>
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: Re: QRP ARCI Librarian
Date: Fri, 2 Jun 1995 19:47:37 EDT

On Fri, 2 Jun 1995 N8DHT@aol.com wrote:
> By action of the QRP-ARCI, Inc. Board of Directors at the Annual Meeting in
> Dayton this year, the Club's Secy-Treas (at present, myself) was directed to
> assemble and maintain such a file. There will be postings (e-mail and in the
> print media) to intitate this work.
> 72/73,
> Myron

Myron,

Many thanks for the info on the archival development for QRPARCI. I wonder if this directive covers the handling of the back issue question, or whether separate action will be required for the handling of the back issues question. They appeared to be related efforts, but together might overload the Secretary-Treasurer position (if the workload is comparable to similar positions in other organizations). In any event, please do not forget the generous offer of Joe Spencer, KK5NA, and his YL, who appear willing and able to assist. I'll look forward to further developments in this arena.

Good luck and 73

LB, W4RNL

From qrp-l@lehigh.edu Fri Jun 2 21:33:55 1995
Message-Id: <199506022125.OAA16313@mailhost.primenet.com>
From: aa7qy@primenet.com (Roger Hightower)
Subject: QRP+
Date: Fri, 2 Jun 1995 17:33:55 EDT

It's here! I got an invoice that said it was shipped on 5/31, and

the QRP+ arrived today. Just in time to learn/practice the knobs and buttons before FD.

73, de Roger AA7QY
aa7qy@primenet.com   rhigh@aztec.asu.edu   Ham Radio: AA7QY@KC7Y.AZ.USA.NA

From qrp-l@lehigh.edu Fri Jun 2 22:00:06 1995
Message-Id: <199506022155.OAA23367@mailhost.primenet.com>
From: bobhigh@primenet.com (Bob Hightower)
Subject: QRP+
Date: Fri, 2 Jun 1995 18:00:06 EDT

After all the waiting and complaining, it's here! Hope all the others on the group order got theirs as well, as I was one of the last to order. Will try it out this weekend, and hope to work the Scout group this weekend.

73, Bob KI7MN (bobhigh@primenet.com)

From qrp-l@lehigh.edu Fri Jun 2 14:02:42 1995
Message-Id: <Pine.3.89.9506020909.A543301846-0100000@utkvx.utk.edu>
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: QRPARCI Librarian
Date: Fri, 2 Jun 1995 10:02:42 EDT

Joe:

Saw your message volunteering ("gulp" and all) for the task. Many thanks for the raised hand. As you know, my posting was by way of a proposal to the board of QRPARCI, and that group will have to make the final decision (including any revisions to the idea) about whether the idea is worthy of support (since there will be some fiscal factors, as well as continuing support). However, individual response sent to me directly has been good, so I hope it will be a GO. It certainly would serve the interests of QRPers everywhere. I hope some of the board have already responded to your willingness to serve, whatever their final decision and its shape. Good luck.

-73-
LB, W4RNL

From qrp-l@lehigh.edu Fri Jun 2 18:15:30 1995
Message-Id: <9505028021.AA802127817@CCMAIL.AEROSYS.LORAL.COM>
From: "Bob White" <Bob_White@CCMAIL.AEROSYS.LORAL.COM>
Subject: Re[2]: A battery question from an AC user
Date: Fri, 2 Jun 1995 14:15:30 EDT

Don't forget that the 1.3 Ah is a rating based on a discharged battery voltage of 10.5 V and most radios will not operate that low. You have to adjust the Ah for the point where the voltage is still sufficient to operate the radio (in xmit).

Bob White WO3B
bob_white@ccmail.aerosys.loral.com

_____ Reply Separator _____
Subject: Re: A battery question from an AC user
Author: SZ0026@daphne.rrze.uni-erlangen.de at INTERNET
Date: 6/2/95 11:04 AM

LB, fellow QRP friends,

> I am thinking of using a Panasonic LCR12V1.3P lead-acid sealed battery
> (1.3 Ah, 12 volt) to power an SWL-30 (low receive current, about 300-350
> mA key down current). What can I expect for operating lifetime between
> charges? 3-4 hours? More? Less?

I am not very experienced with this, but I'll give my two cents anyway. LB, you forgot to give the current drain in receive. For this example I assume RX current is 100mA, TX current is 300mA, and you are a good operator who is listening a lot, so you are listening nine tenth of your time.

Average current drain then is one tenth of TX current plus nine tenth of RX current, that is 0.1 * 300mA + 0.9 * 100mA = 30mA + 90mA = 120mA = 0.12A.

Your battery theoretically can entertain this current for { 1.3 divided through 0.12 } hours: that is a wee bit more than ten hours. I guess my assumption of 100mA RX current was ridiculously high - so your operating time might be even longer.

You see, the math is easy. In reality your average operating time

between charges will be less because the battery can't be drained to the last electron. Here experience comes into play that I don't have enough of ;-)

72 de Richard, DL8MFQ/AA8CP

--
Richard Hieber, DL8MFQ/AA8CP
sz0026@daphne.rrze.uni-erlangen.de

From qrp-l@lehigh.edu Fri Jun 2 13:31:46 1995
Message-Id: <abf4c0dc010210038955@[129.74.35.16]>
From: Steve.Hideg.1@nd.edu (Steve Hideg)
Subject: The QRP-L Resource Page
Date: Fri, 2 Jun 1995 09:31:46 EDT

I guess that this message will mark the official opening of the QRP-L WWW Resource page. Many of you have already been out there. This is a work in progress. There are now pictures from the 1995 Dayton Hamvention QRP-related activities there, as well as several other files and links.

There are also links to the Lehigh ftp site and http qrp-l archives.

I will soon have an online catalog of various qrp rigs with descriptions and pictures.

I have simplified the address for the server itself. The QRP-L resource page can be reached at:

        http://QRP.CC.ND.EDU/QRP-L/
        (capital letters are not needed, but are used here for clarity)

Also, the Kanga US online catalog is maintained on this server, so its address can also be referenced:

        http://QRP.CC.ND.EDU/KANGA/

Please contact me if you have any suggestions, questions, or submissions for the QRP-L Resource Page.

72

--Steve

Steve Hideg Macintosh Consultant/Analyst

Office of University Computing Telephone: (219) 631-EXAM
G034 Computing Center/Math Building E-mail: Steve.Hideg.1@nd.edu
University of Notre Dame URL: http://www.nd.edu/~shideg/
Notre Dame, IN 46556 Ham Radio: N8HSC/9

"My karma ran over your dogma."

From qrp-l@lehigh.edu Fri Jun 2 15:57:14 1995
Message-Id: <9506021607.AA15393@asp.vet.purdue.edu>
From: bfinch@asp.vet.purdue.edu (Robert Finch)
Subject: throne power
Date: Fri, 2 Jun 1995 11:57:14 EDT

abt. using the throne......(and e-mail)

i use a hp palmtop to read the mail, and

my xyl notes how much time i spend sitting

in the small room......

so i guess it's obvious now abt. where i

read the mail......

if this appeals to u, and since someone ELSE

brought it up, i can let u know where to get

the 11.5 oz. hp palmtop really inexpensive

ttfn.....baab...n6cxb

From qrp-l@lehigh.edu Fri Jun 2 18:39:35 1995
Message-Id: <m0sHbYD-00001WC@juts.ccc.amdahl.com>
From: bruce.florip@amail.amdahl.com
Subject: TNX !!RE:Help with Radiokit QRP2
Date: Fri, 2 Jun 1995 14:39:35 EDT

To Charlie kb8bwe/qrp

Charlie,

   Have not had time to write a proper reply to your request for help. To put your experience with the radiokit into perspective, I've successfully built 3 norcal 40s, a norcal sierra, an ohr40, to name a few... when the radiokit 40 meter rig made it to the bench, I populated the PC board (too much work due to errors in the documentation, omissions in the parts layout, and no silkscreen) and started the mechanical construction... put it in the cardboard box it came in and put it on the shelf for next winter...

   The radio kit rig I got was purchased in Dayton in '92, so they may have improved by now... but it is my last kit from them.

Bruce Florip AA7AR/6
Santa Clara, Ca.
baf00@amail.amdahl.com

Just my opinion...

From qrp-l@lehigh.edu Sat Jun 3 00:29:03 1995
Message-Id: <Pine.SOL.3.91.950602202622.14212B-100000@iglou.iglou.com>
From: "Charles A. Rubenstein" <rubenc@iglou.com>
Subject: Re: TNX !!RE:Help with Radiokit QRP2
Date: Fri, 2 Jun 1995 20:29:03 EDT

On Fri, 2 Jun 1995 bruce.florip@amail.amdahl.com wrote:

>
>
> To Charlie kb8bwe/qrp
>
> Charlie,
>
>   Have not had time to write a proper reply to your request for help. To put
> your experience with the radiokit into perspective, I've successfully built 3
> norcal 40s, a norcal sierra, an ohr40, to name a few... when the radiokit 40
> meter rig made it to the bench, I populated the PC board (too much work due to
> errors in the documentation, omissions in the parts layout, and no silkscreen)
> and started the mechanical construction... put it in the cardboard box it came
> in and put it on the shelf for next winter...
>
>   The radio kit rig I got was purchased in Dayton in '92, so they may have
> improved by now... but it is my last kit from them.
>
>   Bruce Florip AA7AR/6
>   Santa Clara, Ca.
>   baf00@amail.amdahl.com
>
> Just my opinion...
>
>

Well, I truly share your opinion on that count.....I think I should stick
to more structured projects.

Charlie

From qrp-l@lehigh.edu Fri Jun 2 18:11:53 1995
Message-Id: <Pine.SOL.3.91.950602135357.23409A-100000@iglou.iglou.com>
From: "Charles A. Rubenstein" <rubenc@iglou.com>
Subject: TNX !!RE:Help with Radiokit QRP20
Date: Fri, 2 Jun 1995 14:11:53 EDT

********* WOW !!!! **********

I never expected a response like THIS !! Must have had 30 offers to help
me out with salvaging my attempt at building a Radiokit QRP20.

I have sent some e-mail messages to some of you who responded, to see who
might have the time to tinker with this bear. To the rest of you who

responded, THANK YOU SO MUCH for your responses. It just shows that QRP truly IS one of the finer things about amateur radio.

I have been active QRP with a modified IC735 for some time now, but wanted to try my hand at actually building a rig. And while I admit defeat (after 6 months of trying to get this one to work), Im still not giving up. I plan to try building another rig, perhaps a bit more my speed. I have heard lots of comments about 2 particular rigs on the mailer, ie:

NN1G 30 meter rig, and the 30-40.

(Is there also a 30 meter version of the Norcal40?)

I have a fairly steady hand, and while I am an attorney by trade (Hold the Flames,hi hi Im the DA in Cincinnati), I DON'T consider myself INCAPABLE of actually building a rig. Those of you who have built the above rigs, which one for 30 meters would you suggest. I have had lots of fun on 30CW, and hope to build for that band.

I had the wonderful opportunity this last weekend, Memorial Day, while at a family trip to our cottage in Lake Cumberland, KY, to operate QRP portable with a MFJ 40M dipole, and my IC735 at 5W. The man upstairs suggested other activities than boating that weekend with torrential rains all weekend, but all was not lost. With the meager 5W signal, I enjoyed 2 evenings of great CW, and on sunday night felt like rare DX with the virtual PILEUP to work 'lil-'ole-me on 40M. It was neat to leave the megabuck OSCAR station at home, and have this much fun with that impromptu station. Im sure that actually operating a rig I built on 30M will only enhance that feeling.

Again, THANKS for all your offers of help, and hope to CU all on 30 soon.

Charlie KB8BWE/QRP
rubenc@iglou.com

From qrp-l@lehigh.edu Fri Jun 2 15:51:12 1995
Message-Id: <abf4e1860302100336a7@[129.74.35.16]>
From: Steve.Hideg.1@nd.edu (Steve Hideg)
Subject: URL
Date: Fri, 2 Jun 1995 11:51:12 EDT

I have noticed some unsuccessful attempts at accessing the QRP-L Resource page and the Kanga US catalog.

Please use these URLs:

http://QRP.CC.ND.EDU/QRP-L/
or
http://QRP.CC.ND.EDU/QRP-L/index.html

and

http://QRP.CC.ND.EDU/KANGA
or
http://QRP.CC.ND.EDU/KANGA/index.html

Please note that ALL SLASHES ARE IMPORTANT! Do not omit any slashes in URLs.

--Steve

Steve Hideg Macintosh Consultant/Analyst

Office of University Computing Telephone: (219) 631-EXAM
G034 Computing Center/Math Building E-mail: Steve.Hideg.1@nd.edu
University of Notre Dame URL: http://www.nd.edu/~shideg/
Notre Dame, IN 46556 Ham Radio: N8HSC/9

"My karma ran over your dogma."